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(54) **SELF-BALANCING BOARD WITH PRIMARY WHEEL AND DISTAL AUXILIARY WHEEL**

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ABSTRACT

A self-balancing board is provided, comprising a primary wheel assembly, a platform, at least one sensor, a controller, a first auxiliary wheel assembly, and a first brake element. The primary wheel assembly comprises a primary wheel and a motor driving the primary wheel. The platform is secured to the primary wheel assembly and has a foot deck. The at least one sensor senses the orientation of the platform. The controller receives data from the at least one sensor and controls the motor in response to the received data. The first auxiliary wheel assembly is secured to the platform distal the primary wheel assembly, and is elevated from contacting a flat surface upon which the primary wheel rests when the foot deck is parallel to the flat surface. The first brake element is manually movable relative to the first auxiliary wheel assembly to engage the first auxiliary wheel assembly to provide resistance to rotation of the first auxiliary wheel assembly.

